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California Air Resources Board

PM2.5 Emission Inventory Development Projects

Note: This DRAFT table is provided for general information only and is not binding or completely definitive. Contact ARB staff for additional information.

Planning & Technical Support Division

Ongoing Projects

Simulation and Analysis of Factors Leading to High PM Emission Fluxes Using an Environmental Wind Tunnel (#97-718)

Estimate Unpaved Road Travel VMT Using GIS Land-Use Attributes (#96-722)

Estimate and Model Ammonia Emissions from Fertilizer Use and Background Sources (#98-716)

Develop a Method and Collect Activity Data for Charbroiling and Other Commercial Cooking Operations (#98-721)

Creating a Statewide Spatially and Temporally Allocated Forest Burning Emission Inventory (#98-726)

Directly Measured Particulate Matter Produced by Vehicle Travel over Paved Roads (#98-723)

Possible Future Projects - For discussion at workshop

Estimate Unpaved Road Travel VMT Using GIS Land-Use Attributes - Phase II

Evaluation of PM Entrainment, Deposition, and Transport of Geologic Dust from Unpaved Roads and Agricultural Lands

Residential Wood Combustion Emissions Estimation

Creating a Statewide Spatially and Temporally Allocated Agricultural Burning Emission Inventory

Chemical & Size Speciation Projects

Development of Models for Spatial Allocation of PM2.5 using GIS

Livestock Activity Data and Factors That Influence Livestock Ammonia Emissions

ARB Staff Ongoing Projects

GIS Based Emission Inventory and Web-Based Access

Spatial and Temporal Allocation of PM Emissions (SMOKE)

Statewide Ammonia Emissions Inventory Development

Development of GIS Based Biogenic Emissions Estimates

Development & Aquisition of Statewide Vegetation Maps

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Other Selected ARB Particulate Matter Inventory Related Studies

California Regional PM Air Quality Studies

Complete Picture Speciation Profiles - Develop profiles of gaseous, semi-volatile, and particulate species for the major carbon sources

Geological Profiles - Develop profiles using innovative tracers to distinguish between the major sources of geological material

Activity Data Collection - Develop regional activity and spatial/temporal allocation data for the 1999-2000 time period.

Ammonia Emissions - Develop improved estimates for non-agricultural soils and fertilizer application, as well as urban sources of ammonia

Mobile Source Activity Data - Collect traffic count data to develop hourly motor vehicle activity profiles

Transportation Network Integration - Create a consistent, gridded MV inventory that integrates data from all regions in study domain

Almond, walnut, fig, wheat, and cotton harvest PM emissions testing

Agricultural land preparation emissions testing for PM

Dairy and feedlot ammonia and PM testing

Application of remote sensing to measure emissions

Evaluation of the PM emissions potential of various soil types

Mobile Source Control Division and Research Division

Motor Vehicle & Mobile Source Projects

Testing for Exhaust Emissions of Diesel Powered Off-Road Engines

Characterization of Particulate Matter Emissions from Gasoline-Fueled Vehicles

Impact of Reformulated Fuels on Particle and Gas-Phase Emissions from Motor Vehicles

Physical and Chemical Characteristics of Ultrafine and Nanoparticle PM from Gasoline and Diesel On-Road MV

Analysis of Tire and Brake Wear Particulate Matter from On-Road Motor Vehicles

Development of Software for Spatially and Temporally Resolving Motor Vehicle Activity Data

A Large Scale Global Positioning System (GPS) Instrumented Vehicle Study for Collection of Statewide Automobile Activity Data

Analysis of Weekend Episodic Activity

Emissions Testing of Low-Emitting Two-Stroke Utility Engine for Criteria Pollutants, PM10, and PM2.5

Measurement and Modeling of PM10 and PM2.5 Emissions from Paved Roads in California

Duty-Cycle and Emissions Testing for Personal Watercraft and Motorcycles

Duty-Cycle and Emissions Testing for Utility and Light Industrial Equipment

Heavy Duty Vehicle Chassis Dynamometer Emissions Testing at LACMTA Laboratory

Ammonia Emissions from Motor Vehicles

Research Divison

Other PM Related Research

Remote Sensing Atmospheric Ammonia Using NOAA's mini-MOPA CO2 Lidar in Central California

Flux Measurements of Ammonia to Estimate Emission Factors and Operation of NOy Network

Characterization and Control of Organic Compounds Emitted from Air Pollution Sources

Aerosol Time-of-Flight Mass Spectrometry (ATOFMS)

Revegetation Techniques for Control of Fugitive Dust in the Western Mojave Desert

Biological Markers for Characterization of Potential Sources of Soil-Derived and Geological Fugitive Dust

Improvement of Speciation Profiles for Aerosol Coatings

Determination of Elemental Carbon, Organics, and Source Contributions to Particles During SC Childrens Health Study

Near-Source Exposure to Crystalline Silica and Fine Mineral Fibers in California

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